

0590  
0708

46



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/060,793

DATE: 07/09/2002

TIME: 16:22:19

Input Set : A:\6884usol.txt

Output Set: N:\CRF3\07092002\J060793.raw

4 <110> APPLICANT: Abbott Laboratories  
5 Mukerji, Pradip  
6 Huang, Yung-Sheng  
7 Pereira, Suzette L.  
9 <120> TITLE OF INVENTION: DESATURASE GENES, ENZYMES ENCODED  
10 THEREBY, AND USES THEREOF  
12 <130> FILE REFERENCE: 6884.US.01  
14 <140> CURRENT APPLICATION NUMBER: 10/060,793  
C--> 15 <141> CURRENT FILING DATE: 2002-06-24  
17 <160> NUMBER OF SEQ ID NOS: 60  
19 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 36  
23 <212> TYPE: DNA  
24 <213> ORGANISM: Artificial Sequence  
26 <220> FEATURE:  
27 <223> OTHER INFORMATION: Forward Primer R01144  
29 <400> SEQUENCE: 1  
30 atccgcgccg ccatacccaa gcaactgctgg gtcaag  
32 <210> SEQ ID NO: 2  
33 <211> LENGTH: 45  
34 <212> TYPE: DNA  
35 <213> ORGANISM: Artificial Sequence  
37 <220> FEATURE:  
38 <223> OTHER INFORMATION: Forward Primer R01119  
W--> 40 <221> NAME/KEY: misc\_feature  
41 <222> LOCATION: (21)...(21)  
42 <223> OTHER INFORMATION: y = t/u or c at position 21  
W--> 44 <221> misc\_feature  
45 <222> LOCATION: (33)...(33)  
46 <223> OTHER INFORMATION: y = t/u or c at position 33  
W--> 48 <400> 2  
49 gccctcttcg tctcggcca ygactgcggc cayggctcgt tctcg  
51 <210> SEQ ID NO: 3  
52 <211> LENGTH: 45  
53 <212> TYPE: DNA  
54 <213> ORGANISM: Artificial Sequence  
56 <220> FEATURE:  
57 <223> OTHER INFORMATION: Reverse Primer R01118  
W--> 59 <221> NAME/KEY: misc\_feature  
60 <222> LOCATION: (4)...(4)  
61 <223> OTHER INFORMATION: r = g or a at position 4  
W--> 63 <221> misc\_feature

P.6

ENTERED

36

45

## RAW SEQUENCE LISTING

DATE: 07/09/2002

PATENT APPLICATION: US/10/060,793

TIME: 16:22:19

Input Set : A:\6884usol.txt

Output Set: N:\CRF3\07092002\J060793.raw

```

64 <222> LOCATION: (10)...(10)
65 <223> OTHER INFORMATION: r = g or a at position 10
W--> 67 <221> misc_feature
68 <222> LOCATION: (30)...(31)
69 <223> OTHER INFORMATION: r = g or a at positions 30-31
W--> 71 <221> misc_feature
72 <222> LOCATION: (34)...(34)
73 <223> OTHER INFORMATION: r = g or a at position 34
W--> 75 <221> misc_feature
76 <222> LOCATION: (38)...(38)
77 <223> OTHER INFORMATION: r = g or a at position 38
W--> 79 <221> misc_feature
80 <222> LOCATION: (39)...(39)
81 <223> OTHER INFORMATION: y = t/u or c at position 39
W--> 83 <221> misc_feature
84 <222> LOCATION: (43)...(43)
85 <223> OTHER INFORMATION: r = g or a at position 43
W--> 87 <400> 3
88 gagrtggtar tgggggatct gggggaagar rtgrtggryg acrtg 45
90 <210> SEQ ID NO: 4
91 <211> LENGTH: 45
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: Forward Primer R01121
W--> 98 <221> NAME/KEY: misc_feature
99 <222> LOCATION: (9)...(9)
100 <223> OTHER INFORMATION: y = t/u or c at position 9
W--> 102 <221> misc_feature
103 <222> LOCATION: (27)...(27)
104 <223> OTHER INFORMATION: y = t/u or c at position 27
W--> 106 <221> misc_feature
107 <222> LOCATION: (36)...(36)
108 <223> OTHER INFORMATION: y = t/u or c at position 36
W--> 110 <221> misc_feature
111 <222> LOCATION: (39)...(39)
112 <223> OTHER INFORMATION: y = t/u or c at position 39
W--> 114 <400> 4
115 ccctaccayg gctggcgcat ctgcaycgc acccaycayc agaac 45
117 <210> SEQ ID NO: 5
118 <211> LENGTH: 45
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Reverse Primer R01122
W--> 125 <221> NAME/KEY: misc_feature
126 <222> LOCATION: (7)...(7)
127 <223> OTHER INFORMATION: r = g or a at position 7
W--> 129 <221> misc_feature

```

## RAW SEQUENCE LISTING

DATE: 07/09/2002

PATENT APPLICATION: US/10/060,793

TIME: 16:22:19

Input Set : A:\6884usol.txt

Output Set: N:\CRF3\07092002\J060793.raw

```

130 <222> LOCATION: (10)...(10)
131 <223> OTHER INFORMATION: r = g or a at position 10
W--> 133 <221> misc_feature
134 <222> LOCATION: (37)...(37)
135 <223> OTHER INFORMATION: r = g or a at position 37
W--> 137 <400> 5
138 gttctgrtgrr tgggtccgrt gcgagatgcg ccagccrtgg taggg 45
140 <210> SEQ ID NO: 6
141 <211> LENGTH: 36
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Forward Primer R01146
W--> 148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (13)...(13)
150 <223> OTHER INFORMATION: s = g or c at position 13
W--> 152 <221> misc_feature
153 <222> LOCATION: (19)...(19)
154 <223> OTHER INFORMATION: k = g or t/u at position 19
W--> 156 <400> 6
157 ggctcgact tcsaccccka ctcgacctc ttcgtc 36
159 <210> SEQ ID NO: 7
160 <211> LENGTH: 36
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Reverse Primer R01147
W--> 167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (18)...(18)
169 <223> OTHER INFORMATION: m = a or c at position 18
W--> 171 <221> misc_feature
172 <222> LOCATION: (24)...(24)
173 <223> OTHER INFORMATION: w = a or t/u at position 24
W--> 175 <400> 7
176 gacgaagagg tccgagtmgg ggtwgaagtg cgagcc 36
178 <210> SEQ ID NO: 8
179 <211> LENGTH: 39
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Reverse Primer R01148
W--> 186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (9)...(9)
188 <223> OTHER INFORMATION: k = g or t/u at position 9
W--> 190 <221> misc_feature
191 <222> LOCATION: (30)...(30)
192 <223> OTHER INFORMATION: w = a or t/u at position 30
W--> 194 <221> misc_feature
195 <222> LOCATION: (32)...(32)

```

## RAW SEQUENCE LISTING

DATE: 07/09/2002

PATENT APPLICATION: US/10/060,793

TIME: 16:22:19

Input Set : A:\6884usol.txt

Output Set: N:\CRF3\07092002\J060793.raw

```

196 <223> OTHER INFORMATION: s = g or c at position 32
W--> 198 <400> 8
199 gcgctggakg gtggtgaggc cgccgcggaw gsacgacca
201 <210> SEQ ID NO: 9
202 <211> LENGTH: 45
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Reverse Primer R01114
W--> 209 <221> NAME/KEY: misc_feature
210 <222> LOCATION: (13)...(13)
211 <223> OTHER INFORMATION: r = g or a at position 13
W--> 213 <221> misc_feature
214 <222> LOCATION: (16)...(16)
215 <223> OTHER INFORMATION: r = g or a at position 16
W--> 217 <221> misc_feature
218 <222> LOCATION: (25)...(25)
219 <223> OTHER INFORMATION: r = g or a at position 25
W--> 221 <221> misc_feature
222 <222> LOCATION: (40)...(40)
223 <223> OTHER INFORMATION: r = g or a at position 40
W--> 225 <221> misc_feature
226 <222> LOCATION: (43)...(43)
227 <223> OTHER INFORMATION: r = g or a at position 43
W--> 229 <400> 9
230 ctgggggaag agrtgrtgga tgacrtgggt gccgatgtcr tgrtg
232 <210> SEQ ID NO: 10
233 <211> LENGTH: 45
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Reverse Primer R01116
W--> 240 <221> NAME/KEY: misc_feature
241 <222> LOCATION: (12)...(12)
242 <223> OTHER INFORMATION: y = t/u or c at position 12
W--> 244 <221> misc_feature
245 <222> LOCATION: (16)...(16)
246 <223> OTHER INFORMATION: r = g or a at position 16
W--> 248 <221> misc_feature
249 <222> LOCATION: (22)...(22)
250 <223> OTHER INFORMATION: r = g or a at position 22
W--> 252 <221> misc_feature
253 <222> LOCATION: (33)...(33)
254 <223> OTHER INFORMATION: k = g or t/u at position 33
W--> 256 <221> misc_feature
257 <222> LOCATION: (42)...(43)
258 <223> OTHER INFORMATION: r = g or at at positions 42-43
W--> 260 <400> 10
261 ggtggcctcg aygagrtggt artgggggat ctkggggaag arrtg

```

## RAW SEQUENCE LISTING

DATE: 07/09/2002

PATENT APPLICATION: US/10/060,793

TIME: 16:22:19

Input Set : A:\6884usol.txt

Output Set: N:\CRF3\07092002\J060793.raw

```

263 <210> SEQ ID NO: 11
264 <211> LENGTH: 45
265 <212> TYPE: DNA
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Reverse Primer R01118
W--> 271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (4)...(4)
273 <223> OTHER INFORMATION: r = g or a at position 4
W--> 275 <221> misc_feature
276 <222> LOCATION: (10)...(10)
277 <223> OTHER INFORMATION: r = g or a at position 10
W--> 279 <221> misc_feature
280 <222> LOCATION: (30)...(31)
281 <223> OTHER INFORMATION: r = g or a at positions 30-31
W--> 283 <221> misc_feature
284 <222> LOCATION: (34)...(34)
285 <223> OTHER INFORMATION: r = g or a at position 34
W--> 287 <221> misc_feature
288 <222> LOCATION: (38)...(38)
289 <223> OTHER INFORMATION: r = g or a at position 38
W--> 291 <221> misc_feature
292 <222> LOCATION: (39)...(39)
293 <223> OTHER INFORMATION: y = t/u or c at position 39
W--> 295 <221> misc_feature
296 <222> LOCATION: (43)...(43)
297 <223> OTHER INFORMATION: r = g or a at position 43
W--> 299 <400> 11
300 gagrtggtar tgggggatct gggggaagar rtgrtggrtg acrtg 45
302 <210> SEQ ID NO: 12
303 <211> LENGTH: 25
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Forward Primer R01188
310 <400> SEQUENCE: 12
311 tacgcgtacc tcacgtactc gctcg 25
313 <210> SEQ ID NO: 13
314 <211> LENGTH: 27
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Forward Primer R01189
321 <400> SEQUENCE: 13
322 ttcttgcacc acaacgacga agcgacg 27
324 <210> SEQ ID NO: 14
325 <211> LENGTH: 25
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/060,793

DATE: 07/09/2002  
TIME: 16:22:20

Input Set : A:\6884usol.txt  
Output Set: N:\CRF3\07092002\J060793.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:44; Xaa Pos. 315,331  
Seq#:46; Xaa Pos. 389  
Seq#:48; Xaa Pos. 9,403  
Seq#:52; Xaa Pos. 5,7  
Seq#:53; Xaa Pos. 3,4,11  
Seq#:55; Xaa Pos. 2,5,12  
Seq#:56; Xaa Pos. 3,6  
Seq#:57; Xaa Pos. 2,10,11  
Seq#:58; Xaa Pos. 3,11,13,16  
Seq#:59; Xaa Pos. 2,5,6,9,11  
Seq#:60; Xaa Pos. 6,9